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Operations and Installation Manual

Vitalinq Communication System

Model 94A-07

CDX-GT550UIW

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We would like to hear from you. Our phone number is 1-800-319-6014, or email us at support@vitalinq.com. Please visit us on the web at <http://www.vitalinq.com>.

We are very interested in helping you to solve any problems or questions you may have with the operation or installation.

Please call and give us the name and address of the hospital, cath lab phone number and name of the cath lab director or manager so that we can better serve them. This information can also be submitted via our web site at www.vitalinq.com. Additionally, an electronic version of this manual can be obtained at our web site.

Thank you for your help.

1 VITALINQ™ INTRODUCTION

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Vitalinq is a communication system designed to meet the specific needs that arise during diagnostic and interventional procedures. Vitalinq enables physicians to have continuous two-way conversation with control room operators throughout diagnostic and catheterization procedures. Capable of picking up conversation in a normal tone of voice, Vitalinq allows control room operators to respond immediately to physicians requests. As vital signs are monitored by the control room operator, the physician can receive up-to-the-moment communication on the patient's condition. The Vitalinq communication system provides speakers and microphones for the procedure room (LAB) and control room (TEK). The speakers are ceiling mounted. Control room operators have the option of using the overhead speaker and desk microphone, or a headset. The procedure room microphone is either integrated into the ceiling, replacing a ceiling tile, or mounted to video monitor cluster. The unique construction of our procedure room microphone contributes to Vitalinq's high intelligibility, even within the acoustically active space of a full-functioning procedure room. Designed to minimize the loss of articulation by reducing the potential echo path, Vitalinq gathers and transmits speech in a highly efficient manner.

Complete and comprehensive, the Vitalinq removes the need for talk-listen switching, eliminating the risks posed by breaks in conversation. Physicians and control room operators may converse without interruption.

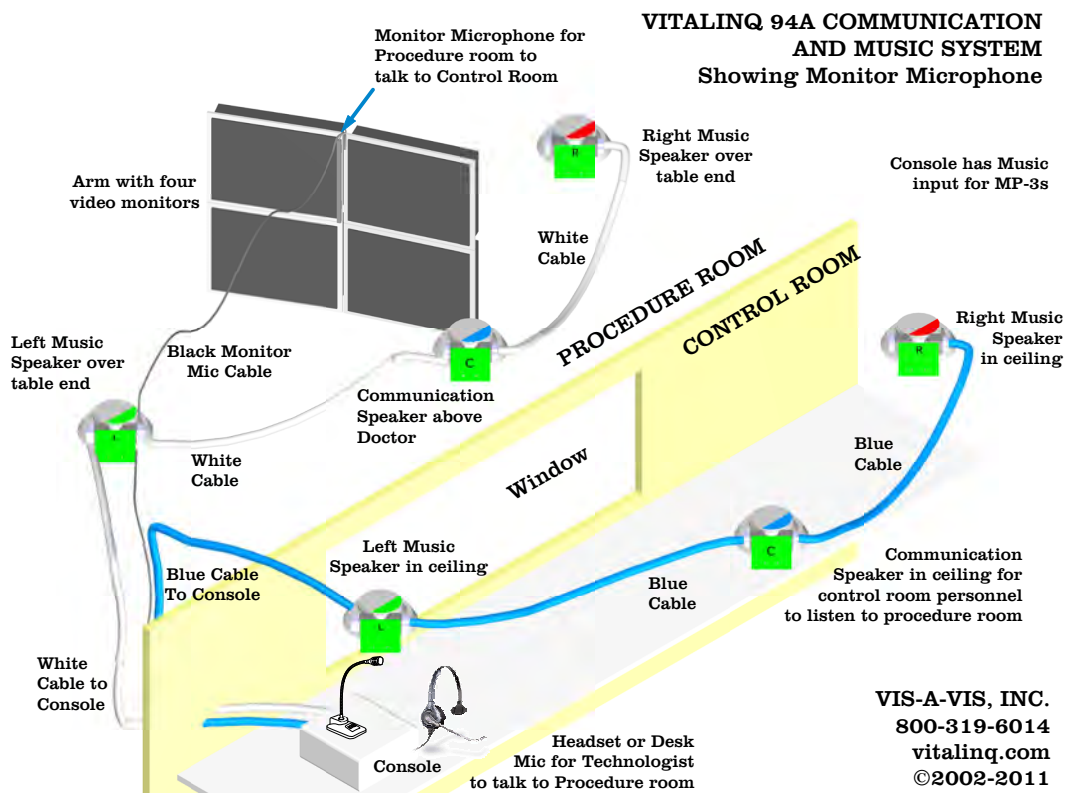
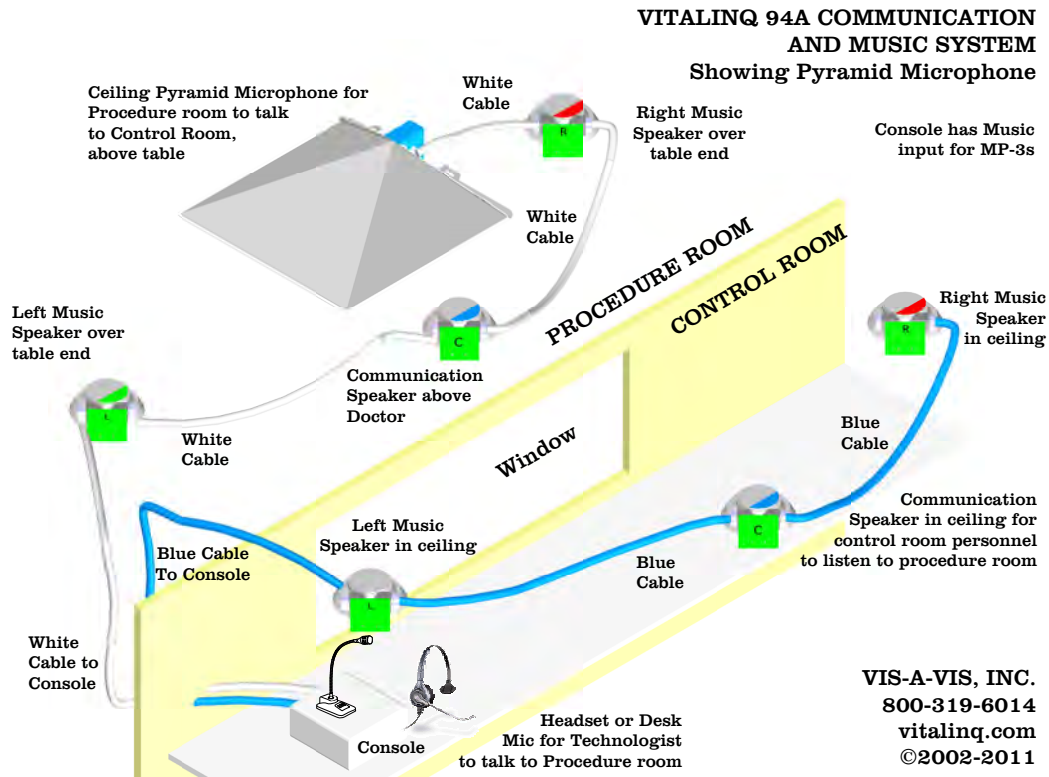
The console has both a communication system and a separate music system. The procedure room and control room both have stereo music ceiling speakers. The music system can receive radio programs subject to the limitations imposed by the buildings shielding effect, play compact discs, or play music from an external music player or flash drive.

We strive to provide the most flexible system available. Vitalinq flexibility options include:

- Wireless headsets.
- Auxilliary wireless headsets are available for scrub or circulator nurses to provide discreet communication with the control room operator.
- Remote connections for headsets & footswitches.
- Support for multiple headsets / desk microphones.
- Telephone interconnectability.

Contact us for details.

1.1 System layouts



2 SETTING UP THE VITALINQ™ SYSTEM

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2.1 Description of the VITALINQ™ communication system

This system is very easy to use. Overhead in each room are a communications speaker and two music speakers. Also, each room has a microphone. In the control room, there is a headset, console and footswitch.

At the console top are controls for the music system. At the bottom are the controls for talking and listening to the procedure room. At the rear of the console are jacks for foot switches and a thumbnail adjustable control for the headset talk volume. Words in **BLUE** refer to labels on the console.

The **LISTEN** control, **FOOT SWITCH** jack and **HEADSET** jack on each side of console work together.

The **OVERHEAD CONTROLS**, at the bottom center of the console, are for the desk microphone and speaker in the control room. In the **OVERHEAD CONTROLS** section are a **TALK** switch and an overhead **LISTEN VOLUME** control. The **BUTTON** and **TALK VOLUME** are only used for setup.

The **TALK/MUTE** switch on the console should always be in the **TALK** position when using a desk mic, and the LED will be **RED**. The **TALK/MUTE** switch and its associated LED are used primarily with a Control room pyramid microphone, which has no other switch. In this situation, when the LED is **RED** the people in the procedure room can hear you. With the **TALK/MUTE** in **MUTE**, the LED will be **GREEN** and the Control room mic is off.

2.2 Layout of controls

The console is divided into functional units. At the top are the music system controls. Below them are the controls for communications. On the left and right sides of the front of the console are headset jacks and headset listen controls. On the rear of the console are foot switch jacks. The center cluster marked **OVERHEAD CONTROLS** controls the volume of the communication speakers. One headset and one foot switch come with each system. The 1/4" phone jacks on the rear are for foot switches or to connect the desk mic. The white slotted shaft adjacent to the left footswitch jack controls the headset talk volume for both headset jacks.

2.3 Initial settings

Turn **LISTEN** controls to the 12:00 position. **LISTEN VOLUME** control **OFF**. Plug power cord into 120 volt AC outlet. Set the **TALK/MUTE** switch to **TALK**. The LED above talk switch should be **RED**.

2.4 Adjusting the headset

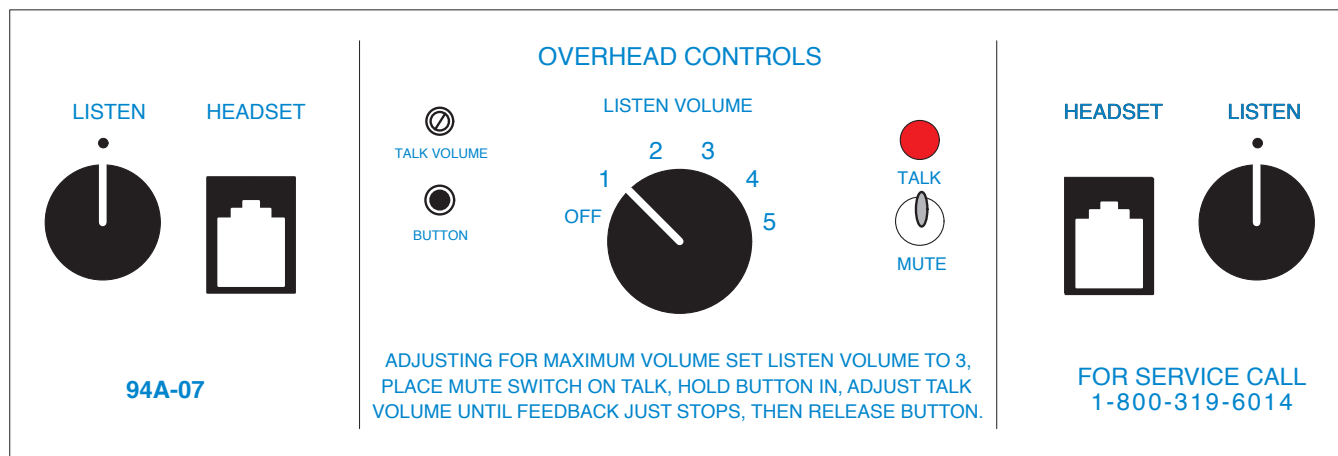
Put on headset and listen to person in procedure room. **LISTEN** controls what you hear. **HEADSET TALK**, on rear of console controls volume that procedure room hears. The headset microphone tube telescopes. Move microphone tube tip close to the corner of your mouth. Pressing foot switch allows you to talk and listen simultaneously to procedure room.

2.5 Adjusting the overhead controls

Unplug the headset. The **OVERHEAD** controls are at the lower front of the console between the **HEADSET** jacks. Turn the **LISTEN VOLUME** switch to 3 and listen to the Lab. You should be able to hear background noise. Lock the desk mic in the talk position by depressing the **LOCK** button on the microphone base. The blue lamp behind the **LOCK** button will illuminate. Turn the **TALK VOLUME** control clockwise while pressing the **BUTTON** until you just barely hear feedback squeal. Release the **BUTTON**. The **TALK** volume level is now set. As you switch the **LISTEN VOLUME** louder or softer, the sound in the Lab varies by an inverse amount to prevent feedback. When finished, be sure to unlock the microphone by pressing the **LOCK** button again. The blue lamp will go out.

3 VITALINQ™ OPERATING INSTRUCTIONS

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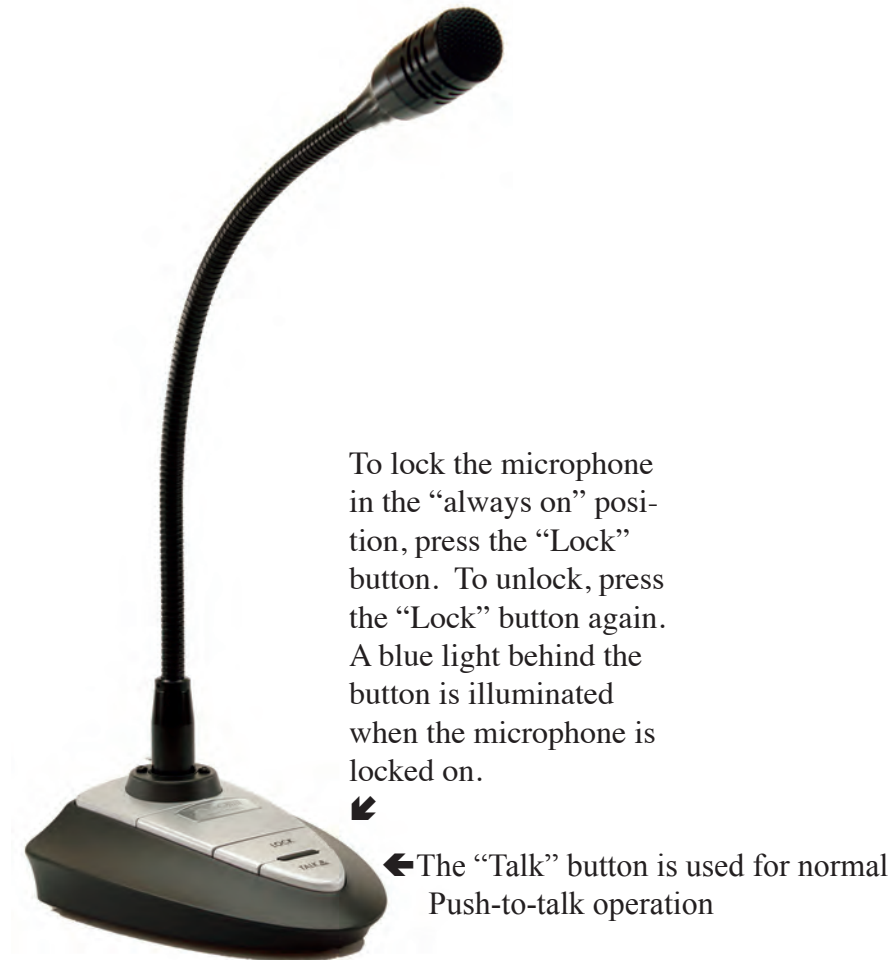
3.1 Initial operation of the headset

BLUE words are labels on console. Place the **TALK** switch on **MUTE** and the **LISTEN VOLUME** control at **OFF**. Turn the headset **LISTEN** control to the middle of its rotation. The headset is easy to adjust. The headband slides in and out of the ear-cup. Put the headset on. The headset microphone tube telescopes. Move it so that the microphone tube tip is near the corner of your mouth. Listen to someone in the procedure room.

Pressing the foot switch allows you to talk via the headset, to people in the procedure room. You will hear the people in the procedure room whether the foot switch is pressed or not. Not pressing the foot-switch will mute your voice. Unplugging the foot switch unmutes the headset microphone. Adjust the headset **LISTEN** volume for a comfortable level by means of the volume control labeled **LISTEN**. The left headset **LISTEN** volume control is for a headset plugged into the left jack and the right one controls the right jack. The foot switches control the same side jack. The white slotted shaft on the rear by the left footswitch jack labelled **HEADSET TALK** controls both of the headsets talk volume.

3.2 Initial Operation of the overhead speaker and desk microphone

Adjust the **LISTEN VOLUME** control to a comfortable level for people in the control room. To talk to the procedure room without using the headset, place the **TALK** switch in the **TALK** position. The **GREEN** light will turn **RED**. The desk mic has a push to talk switch on its base. If desired, the microphone may be locked in the always on mode by pressing the LOCK button on the microphone base. There is a blue light behind the button that lights up to show that it is locked on. To release the always on mode, press the LOCK button again. There is a blue light behind the button that lights up to show that it is locked on.



If the **TALK VOLUME** control is turned too far clockwise, you will hear a hum or squeal; turn it down using your thumbnail or small screwdriver, as described in Section 2.5. It is normal to have to speak louder when using the overhead **TALK** position. When not in use leave the **TALK** switch in **MUTE**. The talk volume may be adjusted by following the directions on the console.







4 MUSIC SYSTEM OPERATION

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4.1 Getting started

4.1.1 Playable discs on this unit

This unit can play CD-DA (also containing CD TEXT) and CD-R/CD-RW (MP3/WMA/AAC files (page 20)).

Type of discs	Label on the disc	
CD-DA		
MP3 WMA AAC		
		

4.1.2 Music system power

SOURCE/OFF button*

- 1 Press to turn on the power/change the source (Radio/CD/USB/AUX).
- 2 Press for 1 second to turn off the power.
- 3 Press for more than 2 seconds to turn off the power and display.

4.2 Adjusting setup items

4.2.1 Canceling the DEMO mode

You can cancel the demonstration display which appears during turning off.

- 1 Press and hold the select button. The setup display appears.
- 2 Rotate the control dial until “DEMO” appears, then press it.
- 3 Rotate the control dial to select “DEMO-OFF.”
- 4 Press **↶** (BACK).
The display returns to normal reception/play mode.

4.2.2 Setting the clock

The clock uses a 12-hour digital Indication

- 1 Press and hold the select button**
The setup display appears
- 2 Rotate the control dial until “CLOCK- ADJ” appears, then press it.**
The hour indication flashes.
- 3 Rotate the volume control dial to set the hour and minute.**
To move the digital indication, press (SEEK) -/+
- 4 After setting the minute, press the select button.**
The setup is complete and the clock starts.

To display the clock, press (DSPL). Press(D SPL) again to return to the previous display.

4.2.3 Adjusting other setup items

- 1 Press and hold the select button.**
The setup display appears.
- 2 Rotate the control dial until the desired item appears, then press it.**
- 3 Rotate the control dial to select the setting, then press it.***
The setting is complete.
- 4 Press ↵ (BACK).**
The display returns to normal reception/play mode.

** For CLOCK-ADJ and BTM settings, step 4 is not necessary.*

Note: Displayed items will differ, depending on the source and setting.

The following items can be set (follow the page reference for details):

“•” indicates the default settings.

CLOCK-ADJ (Clock Adjust) (7.3)

CT (Clock Time)

Activates the CT function: “ON,” “OFF”

BEEP

To set “BEEP-ON” (•) or “BEEP-OFF.”

AUX-A^{*1} (AUX Audio)

To turn the AUX source display “AUX-A-ON” (•) or “AUX-A-OFF”

4.2.3 Adjusting Setup Items cont'd

A.OFF (Auto Off)

To shut off automatically after a desired time when the unit is turned off,

- “A. OFF-NO” (•), “A.OFF-30S (Seconds),” “A. OFF-30M (Minutes)” or “A.OFF-60M (Minutes).”

SUB/REAR (NOT USED)

DEMO (Demonstration)

To set “DEMO-ON” (•) or “DEMO-OFF.”

DIM (Dimmer)

To change the brightness of the display.

- “DIM-ON”: to dim the display.
- “DIM-OFF” (•): to deactivate the dimmer.

M.DSPL (Motion Display)

- “SA”: to show moving patterns and spectrum analyzer.
- “OFF”: to deactivate the Motion Display.

A.SCRL (Auto Scroll)

To scroll long displayed item automatically when the disc/album/track is changed.

- “A.SCRL-ON” (•): to scroll.
- “A.SCRL-OFF”: to not scroll.

LOCAL (Local Seek Mode)

- “LOCAL-ON” : to only tune into stations with stronger signals.
- “LOCAL-OFF” (•): to tune normal reception.

MONO*2 (Monaural Mode)

To improve poor FM reception, select monaural reception mode.

- “MONO-ON” : to hear stereo broadcast in monaural.
- “MONO-OFF” (•): to hear stereo broadcast in stereo.

Z.TIME (Zappin Time)

Selects the playback time for the ZAPPIN function.

- “Z.TIME-1 (about 6 seconds),” “Z.TIME-2 (about 9 seconds),” “Z.TIME-3 (about 30 seconds).”

LPF (Low Pass Filter) - NOT USED

LPF NORM/REV - NOT USED

HPF (High Pass Filter)

Selects the front/rear speaker cut-off frequency: “OFF,” “80Hz,” “100Hz,” “120Hz,” “140Hz,” “160Hz.”

LOUD (Loudness)

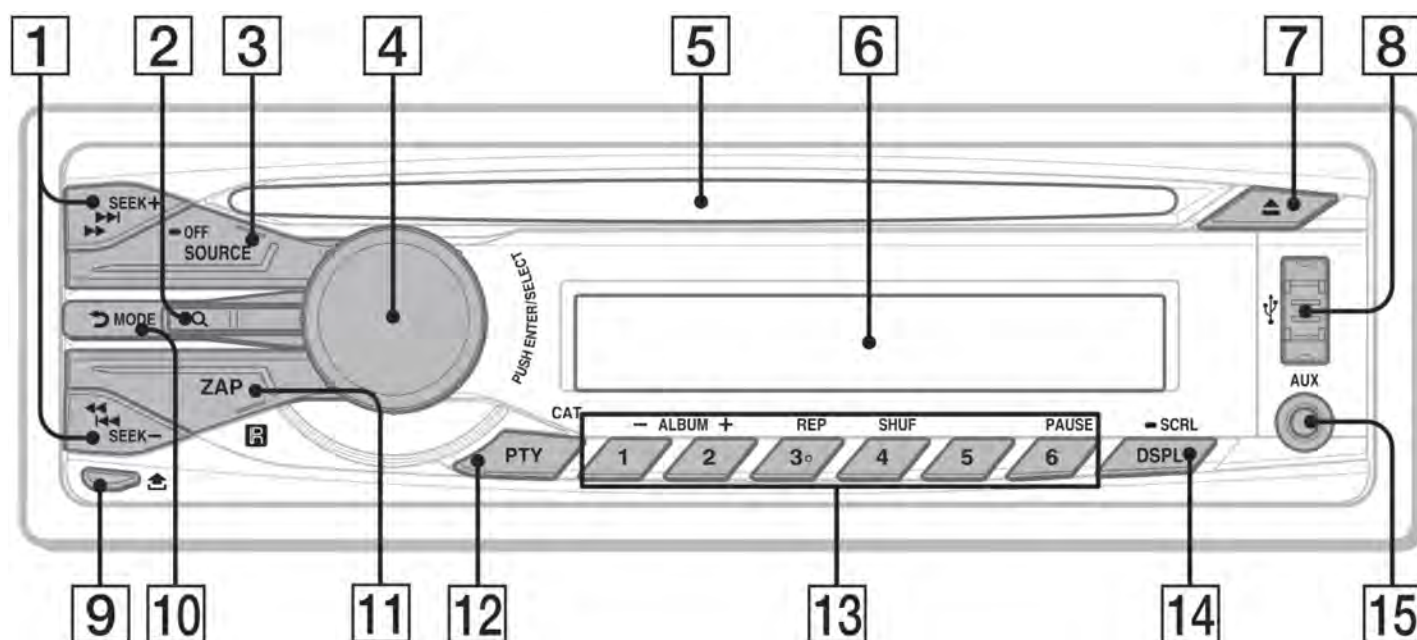
To allow you to listen clearly at low volume levels.

- “LOUD-ON” : to reinforce bass and treble.
- “LOUD-OFF” (•): to not reinforce bass and treble.

BTM (see 7.7)

* When unit is turned off.

4.3 Location of controls and basic operations



This section contains instructions on the location of controls and basic operations.
For details, see the respective pages.

1 SEEK +/- buttons

CD/USB:

To skip tracks (press); skip tracks continuously (press, then press again within about 1 second and hold); reverse/fast forward a track (press and hold).

Radio:

To tune in stations automatically (press); find a station manually (press and hold).

2 Q (Browse) button

To enter the Quick-BrowZer mode.

3 SOURCE/OFF button*

Press to turn on the power/change the source (Radio/CD/USB/AUX).

Press for 1 second to turn off the power.

Press for more than 2 seconds to turn off the power and display.

4 Control dial/select button

To adjust volume (rotate); select setup items (press and rotate).

5 Disc slot

Insert the disc (label side up), playback starts.

6 Display window

7 ▲ (eject) button


To eject the disc.

- 8 USB Connector**
To connect a USB device.
- 9 Front panel release button - LOCKED**
- 10 ↶ (BACK) / MODE button**
To return to the previous display / select the radio band (FM/AM).
Press and hold to enter/cancel the passenger control.
- 11 ZAP button**
To enter ZAPPIN™ mode.
- 12 PTY/CAT button**
To select PTY in RDS.
- 13 Number buttons CD:**
CD/USB:
① / ②: **ALBM** -/+ (during MP3/WMA playback)
To skip albums (press); skip albums continuously (press and hold).
③ **REP**
④ / ⑤ **SHUF**
DM+
Improves digitally compressed sound, such as MP3.
To activate the DM+ function, set “ON.” To cancel, set “OFF.”
⑥ **PAUSE**
To pause playback of a CD on this unit. To cancel, press again.
Radio:
To receive stored stations (press); store stations (press and hold).
- 14 DISP / SCRL (scroll) button**
To change display items (press); scroll the display item (press and hold).
- 15 AUX input jack**
To connect a portable audio device.

4.4 Searching for a track

4.4.1 Searching a track by name — Quick-BrowZer

You can search for a track in a CD or USB device easily by category.

- 1 Press  (BROWSE).**
The unit enters the Quick-BrowZer mode, and the list of search categories appears.
- 2 Rotate the control dial to select the desired search category, then press it to confirm.**
- 3 Repeat step 2 until the desired track is selected.**
Playback starts.

To return to the previous display, press  (BACK).

To exit the Quick-BrowZer mode, press  (BROWSE).

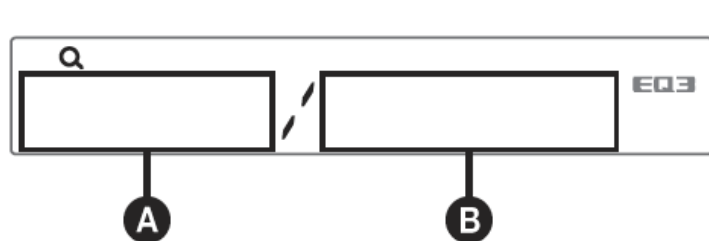
Note

When entering the Quick-BrowZer mode, the repeat/shuffle setting is canceled.

Searching by skip items — Jump mode

When many items are in a category, you can search the desired item quickly.

- 1 Press (SEEK) + in Quick-BrowZer mode.**
The following display appears:



- A** Current item number
- B** Total item number in the current layer

Then the item name will appear.

- 2 Rotate the control dial to select the desired item, or one near the desired item.**
It skips in steps of 10% of the total item number.
- 3 Press the select button.**
The display returns to the Quick-BrowZer mode and the selected item appears.
- 4 Rotate the control dial to select the desired item and press it.**
Playback starts if the selected item is a track.

To cancel Jump mode

Press  (BACK) or 

4.4.2 Searching a Track by Listening to Track Passages - Zappin™

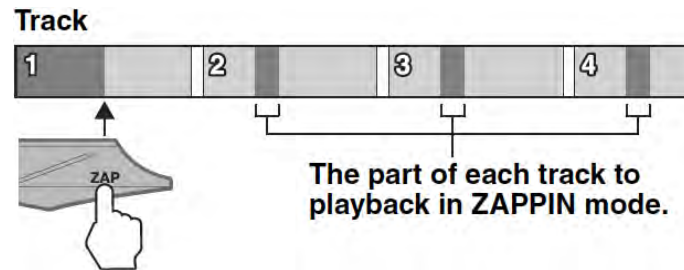
While playing back short track passages in a CD or USB device in sequence, you can search for a track you want to listen to.

ZAPPIN mode is suitable for searching for a track in shuffle or shuffle repeat mode.

1 Press **ZAP during playback.**

After “ZAPPIN” appears in the display, playback starts from a passage of the next track.

The passage is played for the set time, then a click sounds and the next passage starts.



2 Press the select button or (ZAP) when a track you want to listen is played back.

The track that you select returns to normal play mode from the beginning.

To search a track by ZAPPIN mode again, repeat steps 1 and 2.

Tips

- You can select the playback time from about 6 seconds/9 seconds/30 seconds (page 19). You cannot select the passage of the track to playback.
- Press (SEEK) +/- or (1)/(2) (ALBM -/+) in ZAPPIN mode to skip a track or album.
- Pressing (BACK) also confirms a track to playback.

4.5 Radio functions

Storing and receiving stations

Storing automatically - BTM

- 1 Press **(SOURCE/OFF)** repeatedly until “TUNER” appears.**
To change the band, press **(MODE)** repeatedly. You can select from FMI, FM2, FM3, AMI or AM2.
- 2 Press and hold the select button**
The setup display appears.
- 3 Rotate the Control dial until “BTM” appears, then press it.**
The unit stores stations in order of frequency on the number buttons.
A beep sounds when the setting is stored.

Storing manually

While receiving the station that you want to store, press and hold a number button **(1)** to **(6)** until “MEM” appears.

Note:

If you try to store another station on the same number button, the previously stored station will be replaced!

Receiving the stored stations

Select the band, then press a number button **(1)** to **(6)**

Tuning automatically

Select the band, then press **(SEEK)** -/+ to search for the station.

Scanning stops when the unit receives a station. Repeat this procedure until the desired station is received.

Tip

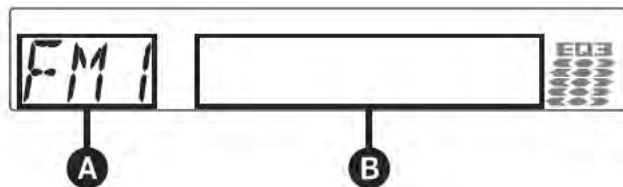
If you know the frequency of the station you want to listen to, press and hold (SEEK)-/+ to locate the approximate frequency, then press (SEEK) -/+ repeatedly to fine adjust to the desired frequency (manual tuning).

4.5.1 RDS

Overview

FM stations with Radio Data System (RDS) service send inaudible digital information along with the regular radio program signal.

Display items



A Radio band, Function

B Program svc name, Clock, Frequency*, Preset number

* While receiving the RDS station, “*” is displayed on the left of the frequency indication.

To change display items **B**, press **DSPL**.

RDS services

This unit automatically provides RDS services as follows:

PTY (Program Types)

Displays the currently received program type. Also searches your selected program type.

CT (Clock Time)

The CT data from the RDS transmission sets the clock.

Notes

- Depending on the country/region, not all RDS functions may be available.
- RDS will not work if the signal strength is too weak, or if the station you are tuned to is not transmitting RDS data.

Selecting PTY

- 1 Press **PTY** during FM reception.



The current program type name appears if the station is transmitting PTY data.

- 2 Rotate the control dial until the desired program type appears, then press it.

The unit starts to search for a station broadcasting the selected program type.

Type of programs

NEWS (News), **INFORM** (Information), **SPORTS** (Sports), **TALK** (Talk), **ROCK** (Rock), **CLS ROCK** (Classic Rock), **ADLT HIT** (Adult Hits), **SOFT RCK** (Soft Rock), **TOP 40** (Top 40), **COUNTRY** (Country), **OLDIES** (Oldies), **SOFT** (Soft), **NOSTALGA** (Nostalgia), **JAZZ** (Jazz), **CLASSICL** (Classical), **R AND B** (Rhythm and Blues), **SOFT R B** (Soft Rhythm and Blues), **LANGUAGE** (Foreign Language), **REL MUSC** (Religious Music), **REL TALK** (Religious Talk), **PERSNLTY** (Personality), **PUBLIC** (Public), **COLLEGE** (College), **WEATHER** (Weather)

Notes

- You cannot use this function in countries/regions where no PTY data is available.
- You may receive a different radio program from the one you select.

Setting CT

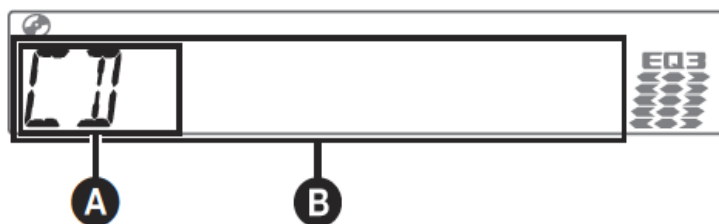
Set “CT-ON” in setup (4.2.3).

Notes

- The CT function may not work even though an RDS station is being received.
- There might be a difference between the time set by the CT function and the actual time.

4.6 CD functions

Display items



A

Source

B

Track name*¹, Disc/artist name*¹, Artist name*¹, Album number*², Album name*¹, Track number/Elapsed playing time, Clock

*¹ The information of a CD TEXT, MP3/WMA/AAC is displayed.

*² Album number is displayed only when the album is changed.

To change display items **B**, press **DSPL** .

Tip

Displayed items may differ depending on model, disc type, recording format and settings.

Repeat and shuffle play

During playback, press **③** (REP) or **④** (SHUF) repeatedly until the desired setting appears.

Select	To play
↶ TRACK	track repeatedly
↶ ALBUM*	album repeatedly
SHUF ALBUM*	album in random order
SHUF DISC	disc in random order

* When an MP3/WMA is played.

To return to normal play mode, select N OFF' or “SHUF OFF.”

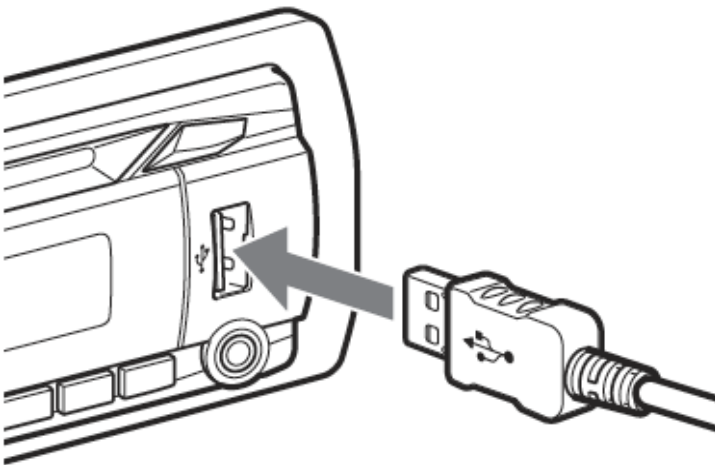
4.7 USB devices

- MSC (Mass Storage Class) and MTP (Media Transfer Protocol) type USB devices compliant with the USB standard can be used.
- Corresponding codec is MP3 (.mp3), WMA (.wma), AAC (.m4a) and AAC (.mp4).
- Backup of data in a USB device is recommended.
- This unit cannot recognize USB devices via a USB hub.

4.7.1 Playing back a USB device

Connect the USB device to the USB connector.

When using a cable, use the one supplied with the USB device to connect.



Playback starts.

If a USB device is already connected, to start playback, press **(SOURCE/OFF)** repeatedly until “USB” appears.

Press **(SOURCE/OFF)** for 1 second to stop playback.

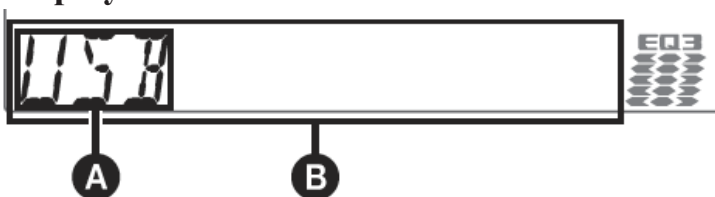
Removing the USB device

- 1 Stop the USB device playback.
- 2 Remove the USB device.

CAUTION

If you remove your USB device during playback, data in the USB device may be damaged.

Display items



A Source

B Track name, Artist name, Album number*, Album name, Track number/Elapsed playing time, Clock

* Album number is displayed only when the album is changed.

To change display items **B**, press **(DSPL)**.

Notes

- Displayed items will differ, depending on the USB device, recorded format and settings.
- The maximum number of displayable data is as follows.
 - folders (albums): 128
 - files (tracks) per folder: 500
- It may take time for playback to begin, depending on the amount of recorded data.
- DRM (Digital Rights Management) files may not be played.
- During playback or fast-forward/reverse of a VBR (Variable Bit Rate) MP3/WMA/AAC file, elapsed playing time may not display accurately.
- Playback of the following MP3/WMA/AAC files is not supported.
 - lossless compression
 - copyright-protected

Repeat and shuffle play

During playback, press **3** (REP) or **4** (SHUF) repeatedly until the desired setting appears.

Select	To play
↶ TRACK	track repeatedly
↶ ALBUM	album repeatedly
SHUF ALBUM	album in random order
SHUF DISC	disc in random order

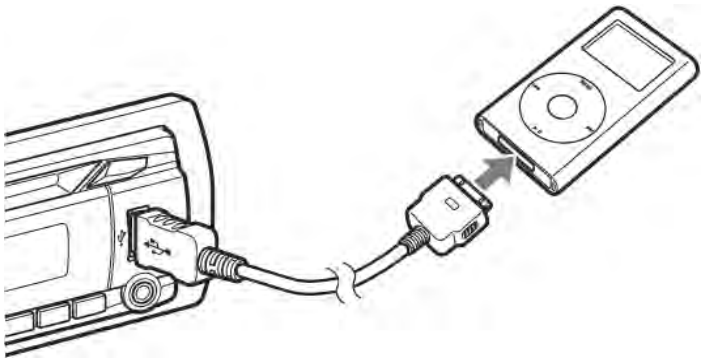
After 3 seconds, the setting is complete.

To return to normal play mode, select N OFF' or "SHUF OFF."

4.7.2 Playing back iPod

Before connecting the iPod, turn down the volume of the unit.

1 Connect the iPod to the USB connector via the dock connector to USB cable.



The iPod will turn on automatically, and the display will appear on the iPod screen as below.*



- The tracks on the iPod start playing automatically from the point last played.
- If an iPod is already connected, to start playback press **SOURCE/OFF** repeatedly until "USB" appears. ("IPD" appears in the display when iPod is recognized.)

* In the case of an iPod touch or iPhone being connected, or that the iPod was last played back using iPod control, the logo will not appear on the screen.

2 Adjust the volume.

Press **SOURCE/OFF** for 1 second to stop playback.

Skipping albums, podcasts, genres, playlists and artists

To	Press
SKIP	1 / 2 (ALBM -/+) [press once for each]
SKIP CONTINUOUSLY	1 / 2 (ALBM -/+) [hold to desired point]

Repeat and shuffle play

During playback, press **③** (REP) or **④** (SHUF) repeatedly until the desired setting appears.

Select	To play
↶ TRACK	track repeatedly
↶ ALBUM	album repeatedly
↶ PODCAST	podcast repeatedly
↶ ARTIST	artist repeatedly
↶ PLAYLIST	playlist repeatedly
↶ GENRE	genre repeatedly
SHUF ALBUM	album in random order
SHUF PODCAST	podcast in random order
SHUF ARTIST	artist in random order
SHUF PLAYLIST	playlist in random order
SHUF GENRE	genre in random order
SHUF DEVICE	device in random order

After 3 seconds, the setting is complete.

To return to normal play mode, select N OFF' or "SHUF OFF."

4.7.3 Removing the iPod

- 1 Stop the iPod playback.
- 2 Remove the iPod.

Caution for iPhone

When you connect an iPhone via USB, telephone volume is controlled by iPhone itself. In order to avoid sudden loud sound after a call, do not increase the volume on the unit during a telephone call.

Notes

- Do not detach the front panel during playback of the iPod, otherwise data may be damaged.
- This unit cannot recognize iPod via a USB hub.

Tips

- When the ignition key is turned to the ACC position, and the unit is on, the iPod will be recharged.
- If the iPod is disconnected during playback, "NO DEV" appears in the display of the unit.

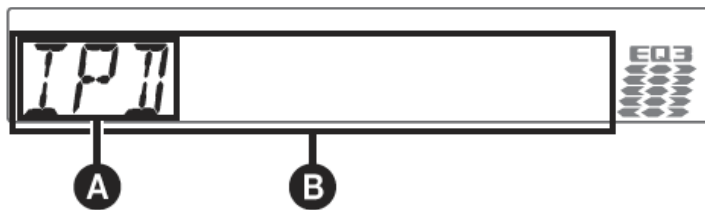
4.7.4 Resuming mode

When the iPod is connected to the dock connector, the mode of this unit changes to resuming mode and playback starts in the mode set by the iPod.

In resuming mode, the following buttons do not function.

- **③** (REP)
- **④** (SHUF)

Display items



- A** Source (iPod) indication
- B** Track name, Artist name, Album name, Track number/Elapsed playing time, Clock

To change display items **B**, press **(DSPL)**.

Tip

When album/podcast/genre/artist/playlist is changed, its item number appears momentarily.

Note

Some letters stored in iPod may not be displayed correctly.

4.7.5 Operating an iPod directly - iPod control

You can operate an iPod connected to the dock connector directly.

During playback, press and hold **(MODE).**

“MODE IPOD” appears and you will be able to operate the iPod directly.

To change the display item

Press **(DSPL)**.

The display items change as follows:

Track name → Artist name → Album name → MODE IPOD → Clock

To exit the passenger control

Press and hold **(MODE)**.

Then “MODE AUDIO” will appear and the play mode will change to “RESUMING.”

Notes

- *The volume can be adjusted only by the unit.*
- *If this mode is canceled, the repeat setting will be turned off.*

4.8 Changing the sound settings

Adjusting the sound characteristics - BAL/FAD/SUB

- 1 Press the select button repeatedly until the desired item appears.**
- 2 Rotate the control dial until the desired menu item appears, then press it.**
- 3 Rotate the control dial to select the setting, then press it.**
The setting is complete.
- 4 Press **↶** (BACK).**
The display returns to normal reception/play mode.

Selecting the sound quality — EQ7 Preset

You can select an equalizer curve from 7 equalizer curves (“XPLOD,” “VOCAL,” “EDGE,” “CRUISE,” “SPACE,” “GRAVITY,” “CUSTOM” or “OFF”).

- 1 During reception/playback, press the select button.**
- 2 Rotate the control dial until “EQ7 PRESET” appears, then press it.**
- 3 Rotate the control dial until the desired equalizer curve appears, then press it.**
- 4 Press \curvearrowright (BACK).**

The display returns to normal reception/play mode.

To cancel the equalizer curve, select “OFF” in step 3.

Tip: The equalizer curve setting can be memorized for each source.

POSITION - NOT USED

BAL (Balance)

Adjusts the sound balance between the left and right speakers.

FAD (Fader)

The Fader controls the balance between the Procedure Room (front) and Control Room (rear)

SW Level - NOT USED

AUX (AUX Volume level) When AUX source is activated (see 7.4).

Adjusts the volume level for each connected auxiliary equipment: +18 dB, 0 dB , -8 dB.

This setting negates the need to adjust the volume level between sources.

Customizing the equalizer curve — EQ7 Setting

“CUSTOM” of EQ7 allows you to make your own equalizer settings.

- 1 Select a source, then press the select button.**
- 2 Rotate the control dial until “EQ7 SETTING” appears, then press it.**
- 3 Rotate the control dial until “BASE” appears, then press it.**
You can select an equalizer curve as a basis for further customizing.
To not customize a preset equalizer curve, skip to step 5.
- 4 Rotate the control dial to select the equalizer curve, then press it.**
- 5 Setting the equalizer curve.**

A Rotate the control dial to select the frequency range, then press it.

BAND1: 63 Hz, BAND2: 160 Hz, BAND3: 400 Hz, BAND4: 1 kHz

BAND5: 2.5kHz, BAND6: 6.3 kHz, BAND7: 16.0 kHz

B Rotate the control dial to adjust the volume level, then press it.

The volume level is adjustable in 1 dB steps, from -6 dB to +6 dB.

Repeat steps **A** and **B** to adjust other frequency ranges.

- 6 Press \curvearrowright (BACK) twice.**

The equalizer curve is stored in “CUSTOM,” and the display returns to normal reception/ play mode.

DM+ Advanced

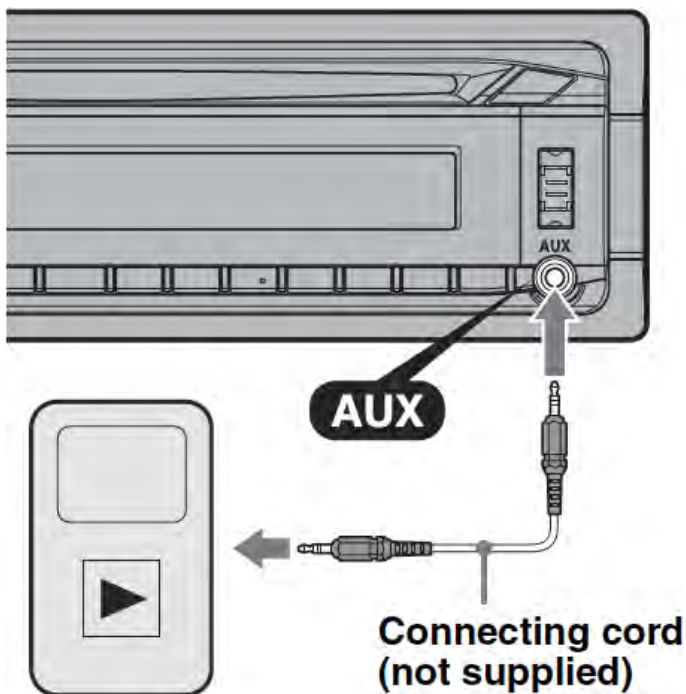
DM+ Advanced improves digitally compressed sound by restoring high frequencies lost in the compression process.

- 1 During playback, press the select button.
- 2 Rotate the control dial until “DM+” appears, then press it.
- 3 Rotate the control dial to select “ON,” then press it.
- 4 Press **↶** (BACK).
The display returns to normal play mode.

Tip:

The DM+ setting can be memorized for each source

4.9 Connecting a portable audio device



- 1 Turn off the portable audio device.
- 2 Turn down the volume on the unit.
- 3 Connect to the unit.

Adjust the volume level

Be sure to adjust the volume for each connected audio device before playback.

- 1 Turn down the volume on the unit.
- 2 Press **SOURCE/OFF** repeatedly until “AUX” appears.
After that, “AUX FRONT IN” appears.
- 3 Start playback of the portable audio device at a moderate volume.
- 4 Set your usual listening volume on the unit.
- 5 Press the select button repeatedly until “AUX” appears, and rotate the volume control dial to adjust the input level (-8 dB to +18 dB).

4.10 About CD's

Notes on discs

- Do not expose discs to direct sunlight or heat sources such as hot air ducts, nor leave it in a car parked in direct sunlight.
- Before playing, wipe the discs with a cleaning cloth from the center out. Do not use solvents such as benzine, thinner, or commercially available cleaners.
- This unit is designed to playback discs that conform to the Compact Disc (CD) standard. DualDiscs and some of the music discs encoded with copyright protection technologies do not conform to the Compact Disc (CD) standard, therefore, these discs may not be playable by this unit.

• Discs that this unit CANNOT play

- Discs with labels, stickers, or sticky tape or paper attached. Doing so may cause a malfunction, or may ruin the disc.
- Discs with non-standard shapes (e.g., heart, square, star). Attempting to do so may damage the unit.
- 8 cm (3 1/4 in) discs.

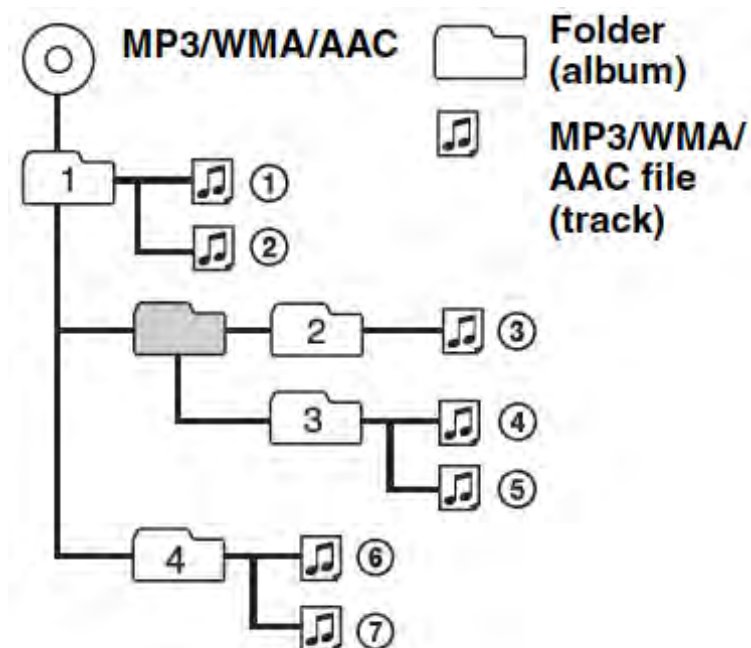
Notes on CD-R/CD-RW discs

- The maximum number of: (CD-R/CD-RW only)
 - folders (albums): 150 (including root folder)
 - files (tracks) and folders: 300 (may less than 300 if folder/file names contain many characters)
 - displayable characters for a folder/file name: 32 (Joliet)/64 (Romeo)
- If the multi-session disc begins with a CD-DA session, it is recognized as a CD-DA disc, and other sessions are not played back.

• Discs that this unit CANNOT play

- CD-R/CD-RW of poor recording quality.
- CD-R/CD-RW recorded with an incompatible recording device.
- CD-R/CD-RW which is finalized incorrectly.
- CD-R/CD-RW other than those recorded in music CD format or MP3 format conforming to ISO9660 Level 1/Level 2, Joliet/Romeo or multi-session.

Playback order of MP3/WMA/AAC files



4.11 About iPod

- You can connect to the following iPod models.
Update your iPod devices to the latest software before use.

Made for

- iPod touch (1st & 2nd generation)
- iPod classic
- iPod with video*
- iPod nano (2nd to 5th generation)
- iPod nano (1st generation)*
- iPhone
- iPhone 3G
- iPhone 3GS

* iPod control is not available for iPod nano (1st generation) or iPod with video.

- “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards.
- “Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards.
- Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

4.12 Other Info

ZAPPIN is a trademark of Sony Corporation.



Windows Media and the Windows logo are trademarks or registered trademarks of Microsoft Corporation in the United States and/or other countries.

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

iPhone is a trademark of Apple Inc.

MPEG Layer-3 audio coding technology and patents licensed from Fraunhofer IIS and Thomson. This product is protected by certain intellectual property rights of Microsoft Corporation. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary.

Content providers are using the digital rights management technology for Windows Media contained in this device (“WM-DRM”) to protect the integrity of their content (“Secure Content”) so that their intellectual property, including copyright, in such content is not misappropriated. This device uses WM-DRM software to play Secure Content (“WM-DRM Software”). If the security of the WM-DRM Software in this device has been compromised, owners of Secure Content (“Secure Content Owners”) may request that Microsoft revoke the WM-DRM Software’s right to acquire new licenses to copy, display and/or play Secure Content. Revocation does not alter the WM-DRM Software’s ability to play unprotected content. A list of revoked WM-DRM Software is sent to your device whenever you download a license for Secure Content from the Internet or from a PC. Microsoft may, in conjunction with such license, also download revocation lists onto your device on behalf of Secure Content Owners.

Halogenated flame retardants are not used in the certain printed wiring boards.

Halogenated flame retardants are not used in cabinets.

4.13 Safety precautions

➤ WARNING

To prevent injury or fire, take the following precautions:

- To prevent a short circuit, never put or leave any metallic objects (such as coins or metal tools) inside the unit.
- If the unit starts to emit smoke or strange smells, turn off the power immediately and call us.
- Be careful not to drop the unit or subject it to strong shock. The unit may break or crack because it contains glass parts.
- Do not touch the liquid crystal fluid if the LCD is damaged or broken due to shock. The liquid crystal fluid may be dangerous to your health or even fatal. If the liquid crystal fluid from the LCD contacts your body or clothing, wash it off with soap immediately.

➤ CAUTION

To prevent damage to the machine, note the following:

Do not install the unit in a spot exposed to direct sunlight or excessive heat or humidity. Also avoid places with too much dust or the possibility of water splashing.

➤ Do Not Load 3-in. CDs in the CD slot

If you try to load a 3 in. CD with its adapter into the unit, the adapter might separate from the CD and damage the unit.

➤ Do Not Load CDs with attached labels

If you try to load a CD with an attached label, it may jam and damage the unit.

The following malfunctions may result from using such discs:

- Inability to eject a disc (due to a label or sticker peeling off and jamming the eject mechanism).
- Inability to read audio data correctly (e.g., playback skipping, or no playback) due to heat shrinking of a sticker or label causing a disc to warp.

➤ NOTE:

The illustrations of the display and the panel appearing in this manual are examples used to explain more clearly how the controls are used. Therefore, what appears on the display in the illustrations may differ from what appears on the display on the actual equipment, and some of the illustrations on the display may represent something impossible in actual operation.

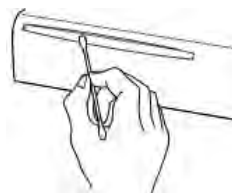
Cleaning the Unit

If the faceplate of this unit is stained, wipe it with a dry soft cloth. If the faceplate is stained badly, wipe the stain off with a cloth moistened with neutral cleaner, then wipe neutral detergent off.

- Applying spray cleaner directly to the unit may affect its mechanical parts. Wiping the faceplate with a hard cloth or using a volatile liquid such as thinner or alcohol may damage the surface or erase characters.

Cleaning the CD Slot

As dust tends to accumulate in the CD slot, clean it every once in a while. Your CDs can get scratched if you put them in a dusty CD slot.



4.14 Specifications

AUDIO POWER SPECIFICATIONS



CEA2006 Standard

Power Output: 17 Watts RMS X 4 at 4 Ohms < 1% THD+N

SN Ratio: 82 dBA

(reference: 1 Watt into 4 Ohms) **Tuner section**

FM

- Tuning range: 87.5 - 107.9 MHz Antenna (aerial) terminal; External antenna (aerial) connector
- Intermediate frequency: 150 kHz
- Usable sensitivity: 10 dBf
- Selectivity: 75 dB at 400 kHz
- Signal-to-noise ratio: 70 dB (mono)
- Separation: 40 dB at 1 kHz
- Frequency response: 20 - 15,000 Hz

AM

- Tuning range: 530 - 1,710 kHz Antenna (aerial) terminal; External antenna (aerial) connector
- Intermediate frequency: 25 kHz
- Sensitivity: 26 μ V

CD Player section

Signal-to-noise ratio: 120 dB

Frequency response: 10 – 20,000 Hz

Wow and flutter: Below measurable limit

USB Player section

Interface: USB (Full-speed)

Maximum current: 500mA

Power amplifier section

Outputs: Speaker outputs (sure seal connectors) Speaker impedance: 4 - 8 ohms

Maximum power output: 52 W x 4 (at 4 ohms)

General

- AUX input jack (stereo mini jack)
- Power requirements: 12 V DC
- Dimensions:
Approx. 178 x 50 x 179 mm (7 1/8 x 2 x 7 1/8 in) (w/h/d)
- Mass:
Approx. 1.2 kg (2 lb 11 oz)

5 TROUBLESHOOTING GUIDE

.....

VITALINQ™ Communications Troubleshooting Guide

Call us first! We want to hear from you. 1-800-319-6014, or support@vitalinq.com

The communication system between the procedure room and control room is very easy to repair. All devices unplug for easy replacement.

5.1 Most likely problems

Nothing works.

Check to see that the power cord is plugged in, and that the white (or grey), and blue cables are plugged into the proper jacks.

No music.

Check to see that the white and blue cables are plugged all the way into the proper jacks. Try a CD. FM or AM stations may be blocked by the shielding effect of the building. See section 7 for music system operating instructions.

People in Procedure Room hear unwanted speech or noise from Control Room.

If the Console 'TALK' switch is up (LED is red) and the desk mic talk bar is depressed or locked on, the people in the Procedure Room will hear the Control Room via the Control Room microphone. This will also happen if a headset is connected and the Foot Switch is pressed or it is unplugged or not plugged in all the way.

Operator can't hear people in the Procedure Room while wearing Headset.

Verify that Headset LISTEN control is turned clockwise; Verify that Headset plug is in all the way. Try another Headset. Try plugging the Headset into the other jack on the Console and adjust its LISTEN control. Verify that the Foot Switch is plugged into the same side jack.

HEADSET AND FOOTSWITCH MUST BE CONNECTED TO OPPOSITE SIDE FROM DESK MIC CONNECTION. IF HEADSET IS PLUGGED INTO SAME SIDE AS DESK MIC, THE HEADSET MIC WILL BE MUTED.

Doctor can't hear the Operator.

- Verify that Headset plug is in all the way.
- Try another Headset.
- Unplug the Foot Switch. If the Doctor can hear, then replace Foot Switch.
- Move Headset and Foot Switch to jacks on the other side of Console. (The left and right sides of the Console are separate Headset channels.)
- On the rear of the Console are small white slotted shaft, which controls Headsets 'TALK' volume.
- The 'TALK' and 'LISTEN' volume controls and Foot Switch control the Headset plugged into the same side of the console.
- Place the 'TALK-MUTE Switch' in the up ('TALK') position. Press the desk mic talk bar. (This uses the desk microphone and not the Headset.) If the Doctor can now hear the Operator then the problem is that the Headset or Headset circuit of the Console is not working. If the Doctor still can't hear, the problem is either in the White Cable, the Console or the Cath Lab microphone.

5.2 Music troubleshooting guide

The following checklist will help you remedy problems you may encounter with your unit.

General

No sound.

- The volume is too low.
- The ATT function is activated.
- The CD is incompatible with the disc format (MP3/WMA).
- The unit is turned off. Turn unit ON by Pressing (SOURCE).

No beep sound.

The beep sound is canceled (see 4.2.3).

The contents of the memory have been erased.

- The power to the unit has been disconnected (unplugged).

During playback or reception, demonstration mode starts.

If no operation is performed for 5 minutes with “DEMO-ON” set, demonstration mode starts.

Set “DEMO-OFF” (see 4.2.1).

The display disappears from/does not appear in the display window.

The dimmer is set “DIM-ON” (see 4.2.3).

The display disappears if you press and hold (SOURCE/OFF).

Press and hold (SOURCE/OFF) on the unit until the display appears.

The Auto Off function does not operate.

The unit is turned on. The Auto Off function activates after turning off the unit.

Turn off the unit.

USB playback

You cannot play back items via a USB hub.

This unit cannot recognize USB devices via a USB hub.

Cannot play back items.

A USB device does not work.

- Reconnect it.

The USB device takes longer to play back.

The USB device contains files with a complicated tree structure.

A beep sounds.

During playback, the USB device has been disconnected.

- Before disconnecting a USB device, make sure to stop playback first for data protection.

The sound is intermittent.

The sound may be intermittent at a high-bit-rate of more than 320 kbps.

CD Playback

The disc cannot be loaded.

- Another disc is already loaded.
- The disc has been forcibly inserted upside down or in the wrong way.

The disc does not playback.

- Defective or dirty disc.
- The CD-Rs/CD-RWs are not for audio use (see 4.10).

MP3/WMA/AAC files cannot be played back.

The disc is incompatible with the MP3/WMA/AAC format and version (see 4.10).

MP3/WMA/AAC files take longer to play back than others.

The following discs take a longer time to start playback.

- a disc recorded with a complicated tree structure.
- a disc recorded in Multi Session.
- a disc to which data can be added.

The display items do not scroll.

- For discs with very many characters, those may not scroll.
- “A.SCRL” is set to “OFF”. Set “A.SCRL-ON” (see 4.2.3).
Press and hold (DSPL)(SCRL).

The sound skips.

Defective or dirty disc.

The operation buttons do not function., The disc will not eject.

Unplug the unit momentarily.

Radio reception

The stations cannot be received. The sound is hampered by noises.

- Check the frequency.
- An external antenna may be necessary. Call us.

Preset tuning is not possible.

- Store the correct frequency in the memory.
- The broadcast signal is too weak.

Automatic tuning is not possible.

- Setting of the local seek mode is not correct.
Tuning stops too frequently: Set “LOCAL-ON” (see 4.2.3).
Tuning does not stop at a station: Set “LOCAL-OFF”(see 4.2.3).
- The broadcast signal is too weak.
Perform manual tuning.

During FM reception, the “ST” indication flashes.

- Tune in the frequency accurately.
- The broadcast signal is too weak.
Set “MONO-ON” (see 4.2.3).

An FM program broadcast in stereo is heard in monaural.

The unit is in monaural reception mode.
Set “MONO-OFF” (see 4.2.3).

RDS

PTY displays “- - - - -.”

- The current station is not an RDS station.
- RDS data has not been received.
- The station does not specify the program type.


Error Displays/Messages

CHECKING

The unit is confirming the connection of a USB device.

Wait until confirming the connection is finished.

ERROR

- The disc is dirty or inserted upside down.
Clean or insert the disc correctly.
- A blank disc has been inserted.
- The disc cannot play due to a problem.
Insert another disc.
- USB device was not automatically recognized.
Reconnect it again.
- Press  to remove the disc.

FAILURE (Illuminates until any button is pressed.) - Call us.

HUB NO SUPRT (HUB Not Support)

USB hub is not supported on this unit.

NO DEV

(SOURCE/OFF) is selected without a USB device connected. A USB device or a USB cable has been disconnected during playback.

Be sure to connect a USB device and USB cable.

NO MUSIC

The disc does not contain a music file.

Insert a music CD in this unit or MP3 playable changer.

NO NAME

A disc/track name is not written in the track.

RESET

The CD unit cannot be operated due to a problem.

Momentarily unplug the unit.

“LLLL” or “rrrr”

During reverse or fast-forward, you have reached the beginning or the end of the disc and you cannot go any further.

--

The character cannot be displayed with the unit.

INSTALLATION

.....

6 PLANNING THE VITALINQ™ INSTALLATION

There are microphones and speakers for the procedure room and for the control room. The control room utilizes a desk microphone or a headset. The procedure room microphone is either a 24” square, pyramid shaped microphone that replaces a ceiling tile or a monitor mounted microphone. All cables are pre-terminated and may be run free or in conduit, subject to local regulations.

Using the layout in “7.1 Installing ceiling devices” and the instructions in 6.1 and 6.2, find locations for the microphones and speakers. Remove the ceiling tiles at these locations and check for adequate space above the ceiling. The tiles will be used in “7.1 Installing ceiling devices.” Relocate only if necessary. **Follow local regulations regarding securing these devices.**

6.1 Procedure room (LAB)

In the procedure room, the pyramid microphone should be above the table in front of the physician. Alternatively, a video monitor mounted microphone may be used if the pyramid isn’t feasible. For the physician to hear best, the communication speaker should be near the physician and more than six feet away from the microphone and the door to the control room. The music speakers should be placed about four feet on either side of the physician, usually at the ends of the table. **Follow local regulations regarding securing these devices.**

6.2 Control room (TEK)

In the control room, the operator’s desk microphone should be placed in a position convenient for the operator. For the best operation, the communication speaker should be more than six feet away from the microphone and the door to the procedure room. The music speakers should be placed in the ceiling, three or four feet on either side of the operator. If provided, the optional auxilliary wireless headset should be located near the console. **Follow local regulations regarding securing these devices.**

6.3 Control room console

The cables from the ceiling devices need to connect to the rear of the desk console. See layout in “7.1. Installing ceiling devices.” If you are installing before the walls are sheet-rocked, use a junction box near the console and one in the ceiling. Connect them with a 1” conduit. Cables can be pulled through by staggering the connectors. **Follow local regulations regarding securing these devices.**

The communication system has volume controls for headset and overhead devices. Headset jacks are on the front of the console and foot switch / desk microphone jacks are on the rear.

7 INSTALLING VITALINQ™ CEILING DEVICES

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7.1 Installing ceiling devices

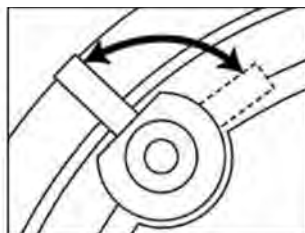
There are two modular, gray eight conductor jacks on the microphone pyramid, communication speaker and music speakers. The Ethernet cables can be connected to the ceiling devices in any convenient sequence. The devices mount in the ceiling. The peak of the pyramid goes up. The flange rests on the ceiling tile grid.

If there isn't room for a 24" x 24" pyramid or if you have a non-grid ceiling, a monitor mounted microphone is available. See Sections 7.2 and 7.3.

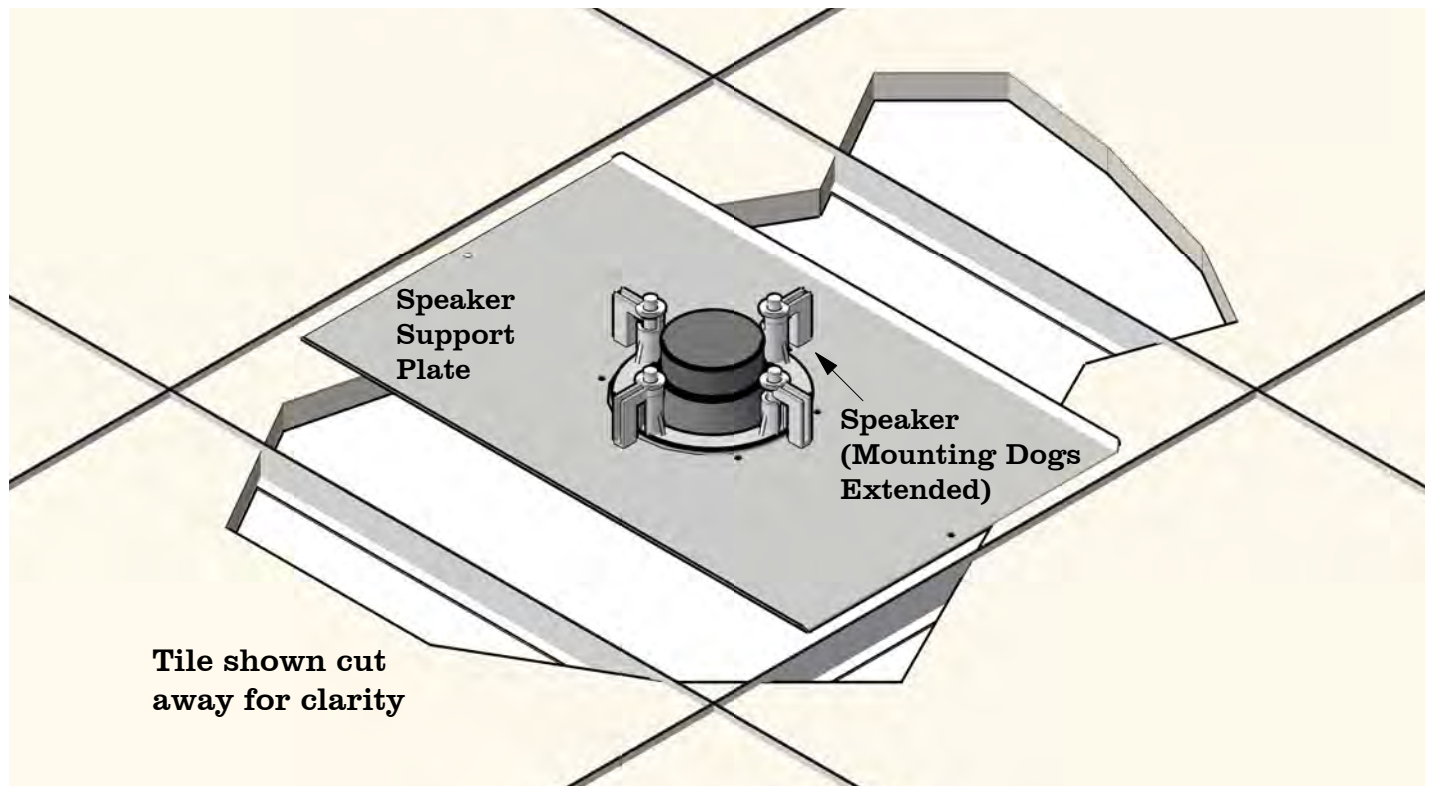
1. Determine placement of all ceiling devices. In the procedure room, a microphone pyramid should be located above the table in front of the physician. A communications speaker should be located in the general area near the physician and more than six feet away from the microphone and the door to the control room. A right music speaker should be located at the table end that would be to the right of the physician, and a left music speaker at the table end that would be to the left of the physician. In the control room, the communication speaker should be more than six feet away from the microphone and the door to the procedure room. Music speakers should be located left and right appropriate to the operator position.
2. Remove the ceiling tiles in the locations you have determined for the ceiling devices.
3. In the speaker box, the communication speakers are packed individually and are marked COMM. The 2 pairs of music speakers are packed individually, two left and two right and are marked MUSIC. A speaker support plate is provided for each speaker.

*** Be careful when handling the support plate as the edges can be sharp!!**

Take the ceiling tiles you removed in step 2 and draw a straight line on the backside from corner to corner. Place the support plate over the lines you drew on the tile and line up the template with the lines to center the template. The plate must not extend past the edges of the tile. Mark the circle and cut it out with a knife or drywall saw. Remove the grille of the speaker by rotating the securing legs on the back of the speaker and gently pushing them down towards the speaker grille. Replace the legs after grille removal to their original position. Put the speaker in the hole from the front side of the tile. Position the support plate over the speaker on the rear of the tile. Rotate out the legs on the back and screw down the four phillips head screws on the front to pull the legs against the support plate. Be careful not to over tighten the screws. If needed after installation, the grill may be removed with a bent paperclip.



Speaker installation detail



Follow local regulations regarding securing these ceiling devices. If none apply, add a safety wire (ceiling hanger wire) from the grid support to the device.

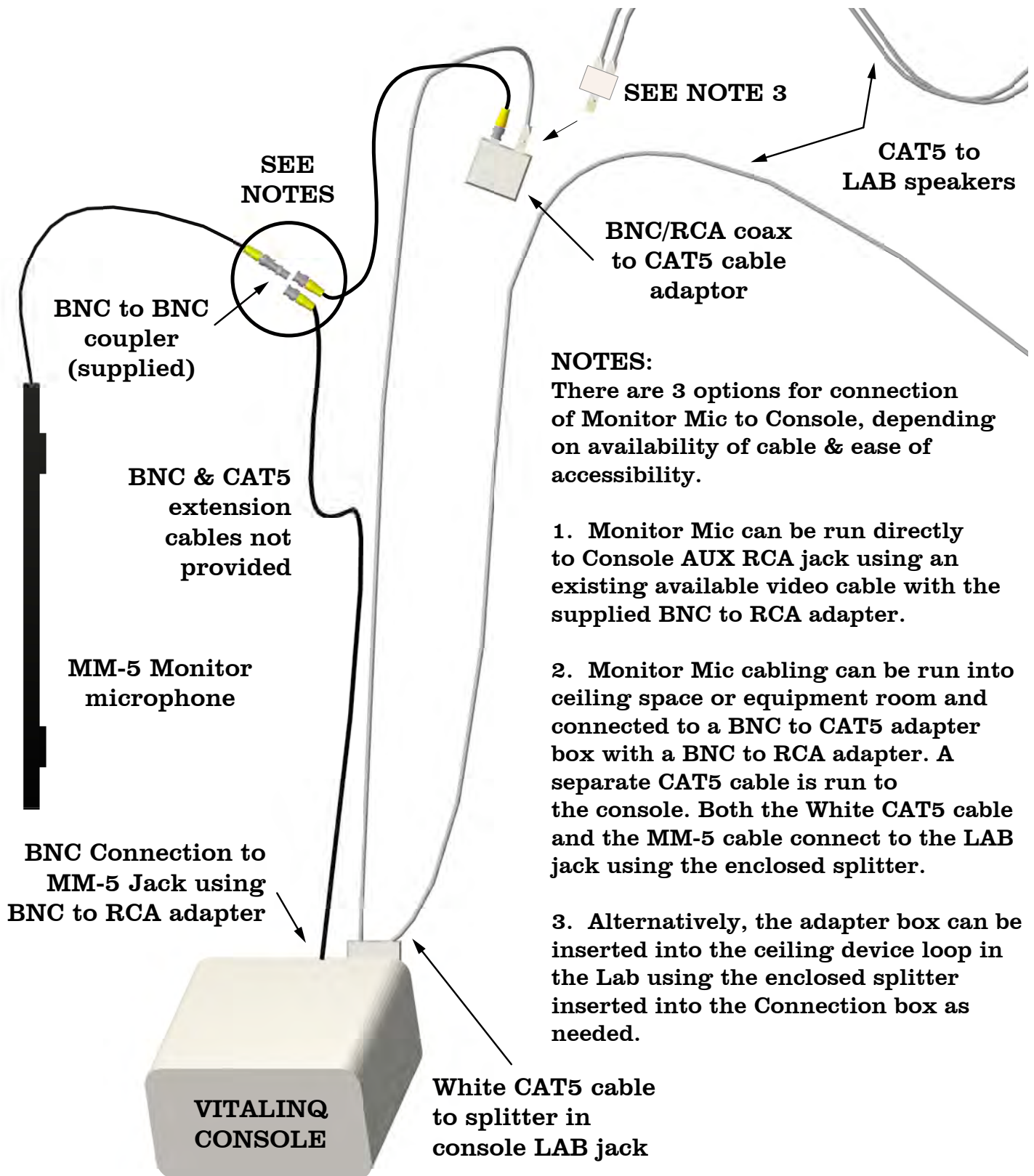
4. Install all devices into selected locations.

All speakers and the pyramids have dual GRAY jacks, and there is no particular sequence for interconnection. This allows for much flexibility in cable routing. Connect all of the devices in the procedure room (LAB), including COMM speaker, pyramid (if provided) and the two MUSIC speakers (left and right) with short white cables. The procedure room device nearest the console is connected to the console with a long white cable. Spare cables and connectors are provided. In the control room, connect COMM and the two MUSIC speakers (left and right) with short blue cables. Connect the control room device nearest the console to it, with a blue cable.

NOTE: Older devices having BLACK jacks cannot be used with this system.

7.2 Monitor mounted microphone - MM5 - connection options

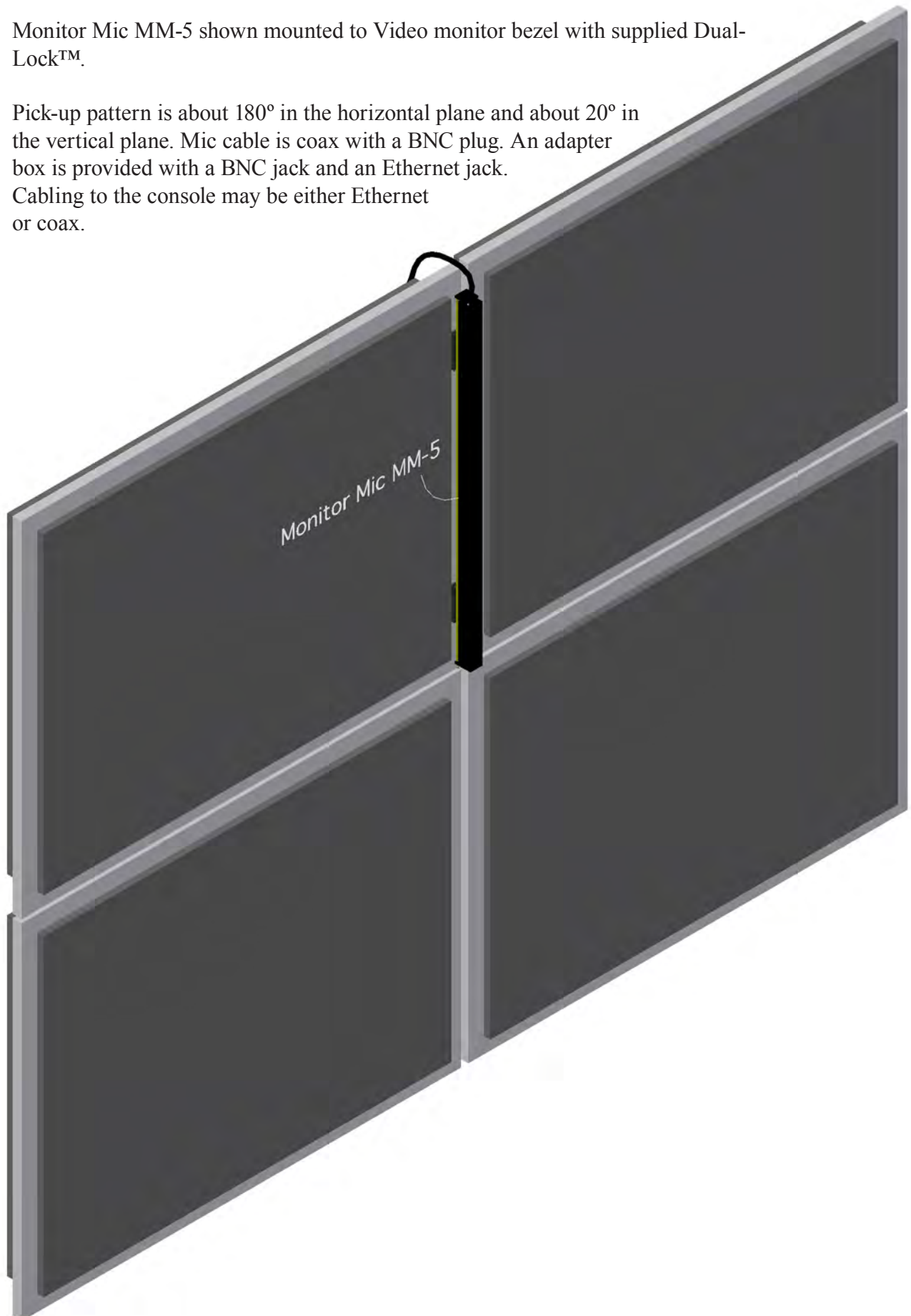
If a monitor mounted microphone is supplied, there are different options for connections. See below:



7.3 Monitor mounted microphone placement

Monitor Mic MM-5 shown mounted to Video monitor bezel with supplied Dual-Lock™.

Pick-up pattern is about 180° in the horizontal plane and about 20° in the vertical plane. Mic cable is coax with a BNC plug. An adapter box is provided with a BNC jack and an Ethernet jack. Cabling to the console may be either Ethernet or coax.



8 INSTALLING THE VITALINQ™ CONSOLE

8.1 Front of Console

•Plug the headset into a headset jack on the front of the console closest to the operator’s normal working location.



Note:
The Console is usually placed on control room counter near operator. If this is not possible, it may be placed in another location, convenient for operation of music controls. An optional remote connection for the headset and footswitch may located near the operator.

8.2 Rear of console

- Plug the Desk Mic into the jack marked **FOOT SWITCH OR AUX IN** on the opposite side from the headset. For example, if you plug the headset into the right jack, plug the desk mic into the left one.
- Plug the white Procedure room cable into the jack marked **LAB WHITE**.
- Plug the blue Control room cable into the jack marked **TEK BLUE**.
- Plug foot switch into foot switch jack on the SAME side that you plugged in the headset.
- The jacks marked **MM5, BLACK, YELLOW**, or **SILVER** are used for optional equipment.

Instructions for using these jacks are included with the equipment.

- The **ANT** jack is provided for using an external antenna in weak reception areas.

When a monitor mounted microphone (MM5) is provided, there are many factors that influence its connections, so there are many options. See Section 3.2 for all options. The monitor mounted microphone can be directly connected to the **MM5** jack with a BNC to RCA adapter.

- Plug the three conductor power cable into the **POWER** jack. Don't plug it in to an AC power outlet yet.

Proceed to Section 2: “Setting up the VITALINQ™ system”

